





# folio

## Volume 48 Issue 2

Office of the Vice President  
(External Relations)  
Marketing and Communications  
6th Floor, General Services Building  
University of Alberta  
Edmonton, Alberta T6G 2H1

## Acting Editor

Michael Brown  
michael.brown@ualberta.ca

## Contributors

Nadia Anderson, Bev Betkowski,  
Michael Brown, Kathleen Cameron,  
Jason Cobb, Christina Grant, Carmen  
Leibel, Sarah Ligon, Ken Mathewson,  
Raquel Maurier, Brian Murphy,  
Christopher Thrall

## Graphic Design

Marketing and Communications

folio's mandate is to serve as a credible news source for the university community by communicating accurate and timely information about issues, programs, people and events and by serving as a forum for discussion and debate. folio is published 23 times per year.

The editor reserves the right to limit, select, edit and position submitted copy and advertisements. Views expressed in folio do not necessarily reflect university policy. folio contents may be printed with acknowledgement.

## Inquiries

Comments and letters should be directed to Michael Brown, acting editor, 780-492-9407  
michael.brown@ualberta.ca

## Corporate & Display Advertising

Deadline: Thursday, noon, one week prior to publication  
Debbie Keehn, 780-492-2325  
folioads@ualberta.ca

## Classified Ads

Deadline: Thursday, noon, one week prior to publication  
Debbie Keehn, 780-492-2325  
folioads@ualberta.ca

## Talks and Events

Deadline: Thursday, noon, one week prior to publication

Enter events online at  
www.uofaweb.ualberta.ca/events/  
submit.cfm

## Circulation/Change of Address

Contact Debbie Keehn at 780-492-2325 or via e-mail at  
debbie.keehn@ualberta.ca

## Billing Info

Contact Fatima Jaffer at 780-492-0448 or via e-mail at  
fatima.jaffer@ualberta.ca

ISSN 0015-5764 Copyright 2010



The University of Alberta maintains a database of all alumni. This database is used to send you news about the U of A, including folio and *New Trail*, invitations to special events and requests for support. On Sept. 1, 1999, post-secondary institutions were required to comply with the Freedom of Information and Protection of Privacy legislation of the province of Alberta. In accordance with this legislation, please respond to one of the following options:

- ☐ Please keep my name, or  
☐ Remove my name from the folio list.

Name \_\_\_\_\_  
Signature \_\_\_\_\_  
No response means the University of Alberta assumes an individual wishes to remain on the mailing list.

# U of A launches 2010 Festival of Ideas

Michael Brown

It was in 1912 that the University of Alberta's first president, Henry Marshall Tory, and his fellow professors decided on the university's motto, *quaecumque vera*, "whatsoever things are true."

If that pursuit was challenging a century ago, in this day of social media and idea exchange, finding, compiling and interpreting what is the truth has become almost unimaginable.

Where does the truth lie and who can we trust to find it?

Difficult questions, but as Tory once said, "every man owes to the generation to which he lives the last full measure of devotion to whatsoever things are true."

That devotion to finding truth is the theme for the university's Festival of Ideas 2010, "Truth and Lies: Trust Me."

"We see the Festival of Ideas as probably the highest profile event the city receives from the university towards the intellectual life of the city," said U of A Provost Carl Amrhein at the Festival of Ideas launch Sept. 14. "It's about scholarship, learning and discovery. It's about bringing people to the city to engage in our many communi-

ties, including our faculty, staff and students. It's about encouraging debate, discussion and deep thinking on a range of issues that we jointly care deeply about."

Following the overwhelming success of Festival of Ideas 2008, the U of A has announced that Festival of Ideas 2010, held Nov. 17 to 21, will again bring an international community of performers, writers, visual artists, scientists and public intellectuals together in an exciting and invigorating series of events aimed

at stimulating learning, discussion and dialogue.

Representing the Festival of Ideas partner, the City of Edmonton, at the launch

was Edmonton Mayor Stephen Mandel, who spoke about the similar aspirations and fate the city and the university share, and how the Festival of Ideas will propel both entities forward.

"One of the goals of the city is the same as the university—to [have the university] become one of the top 20 publicly funded universities by 2020," said Mandel.

"It is vitally important that events like the Festival of Ideas continue to shape the relationship between the University of Alberta and city to promote ideas and thinking

about the challenges of moving the city forward."

Mandel said he remembers the thrill in the audience during Salman Rushdie's talk given as part of the Festival of Ideas during the U of A's Centenary in 2008.

"Everybody was riveted to their seats. It was a remarkable evening; you could look around the room and nobody was even blinking it was so spectacular," he said. "The list of people who are coming to this Festival of Ideas will be equally challenging, equally interesting and equally engaging."

Highlighting this year's festival are Pulitzer Prize-winning author Jared Diamond, who will explore how societies choose to collapse or thrive; Father José Funes, director of the Vatican Observatory, who will examine why science and religion must co-exist; writers Ayaan Hirsi Ali and Mende Nazar, who will share their experiences in the struggle for human rights, democracy, dignity and freedom; and Nicaraguan priest and poet Ernesto Cardenal, who will be joined by Nobel Prize for Literature winners Orhan Pamuk and Derek Walcott for a night of conversation and readings.

Representing the festival's founding sponsor, Capital Power Corporation, at the launch was Martin Kennedy, the corporation's vice-president, external and investor relations. Kennedy said the ultimate goals of the Festival of Ideas fit precisely with the corporation's goals of community engagement and

"We see the Festival of Ideas as probably the highest profile event the city receives from the university towards the intellectual life of the city."

Carl Amrhein

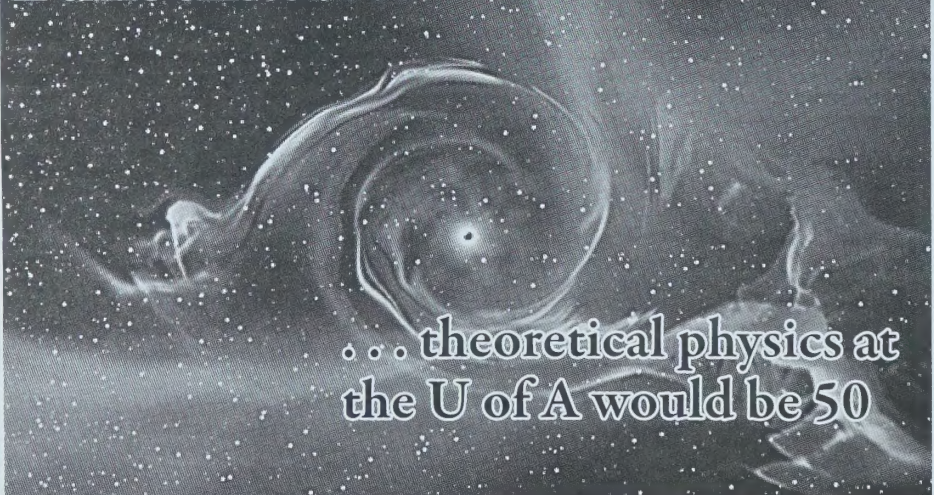
thought leadership, confirmed its support through the 2012 and 2014 editions of the Festival of Ideas.

"The goals of the festival—to debate issues, hear different points of view, encourage discussion and search for answers to complex issues—are just as vital to the success of our company as they are key to this festival," said Kennedy. "It's that kind of process—challenging traditional ways to doing things—that we want to continue to foster because that's what sets us apart."

Debra Pozega Osburn, U of A vice-president, External Relations, says sponsorship of the event is paramount in enabling organizers to bring some of the world's most interesting and provocative thinkers, writers, artists, and scientists together at the festival. "This festival would not be possible without our community partners and corporate sponsors who believe strongly in this event."

"We extend our heartfelt thanks for their commitment in making this year's festival possible." ■

If time existed . . .



Brian Murphy

University of Alberta theoretical physicist Don Page spends a lot of his time pondering the "what if" questions of science. While experimental physicists put their queries to the test in the laboratory, Page is asking questions that are often too big for a lab and would be very hard to visualize.

"When we study black holes we have to theorize, because we have no way of actually making a black hole," said Page. "We use our minds, chalk boards and computers in place of laboratory equipment."

For 50 years the U of A's Theoretical Physics Institute has been asking big questions about what Page describes as the most fundamental aspects of nature. "The more questions

we ask about the laws of nature," said Page, "the better the technology that we can develop."

Page says theoretical physicists can investigate something as unlikely as what's happening at the subatomic level of an inanimate object, to celestial questions like how did matter evolve after the Big Bang at the beginning of the universe.

Page admits that what goes on in the offices of theoretical physicists takes a long time to filter down to the public in a practical way, but the science has led to technology taken for granted today. For example, computers use the principles of quantum theory, which Page claims is the greatest achievement of 20th-century theoretical physics. Another example, he says, is global positioning systems.

"GPS depends on our knowledge of general relativity, which was the

brainchild of arguably the world's most famous theoretical physicist, Albert Einstein."

Among the guest speakers coming to the university to help celebrate the institute's first 50 years is retired U of A physics faculty member Werner Israel. Page says Israel's work has helped make the complexity of black holes—regions in space that absorb or suck in everything, including light, around it—more understandable. Israel's theoretical research showed nonrotating black holes are perfectly round and one of the simplest objects in the universe.

"The study of theoretical physics enriches all of our lives by both the pursuit of knowledge for its own sake," said Page. "The long-term benefits of theoretical physics come from the technologies it makes possible." ■

## Royal Society

continued from page 1

David Brindley investigates the hormonal regulation of triglyceride and phospholipid synthesis in stress, diabetes and obesity. Diabetes and insulin resistance is characterized by high blood triglycerides and his research has proven that lipins are involved in stimulating the liver to secrete fat into the blood. He focuses on mechanisms that control the activity of the enzyme phosphatidate phosphatase. His other studies are designed to illustrate how bioactive lipids regulate wound healing, tumour development, metastasis, angiogenesis and chemoresistance.

Founded in 1882, the Royal Society of Canada is the senior national body of distinguished Canadian scholars, artists and scientists. As Canada's National Academy, the Royal Society of Canada exists to recognize academic excellence and outstanding contributions to Canadian intellectual culture, to advise governments and organizations and to promote a culture of knowledge and innovation in Canada. The society's three academies collectively consist of nearly 2,000 fellows, men and women who are selected by their peers for outstanding contributions to the natural and social sciences, in the arts and in the humanities.

This year's new fellows will be inducted to the RSC during the Induction and Awards Ceremony on Saturday, Nov. 27, 2010, at the National Gallery of Canada in Ottawa. ■



# Support of student learning paves way to honour at CTL

Each September, the University of Alberta honours the achievements of our faculty, students and staff at the Celebration of Teaching and Learning.

This year we will celebrate more than 300 exemplary individuals: faculty who bring their research to life in the classroom; graduate and undergraduate students who have distinguished themselves for outstanding academic and extracurricular work; and staff who support learning.

Bev Betkowski

In her job helping University of Alberta students find volunteer opportunities in the non-profit community to enrich their formal education, Meaghan Goebel relies on a lot of skills—networking, decision-making, planning strategies, getting a handle on assorted issues and challenges.

But as a co-ordinator for the Learning and Beyond office at Augustana Campus, she wouldn't have those skills if it weren't for the help of Joan Schiebelbein and Lorraine Woollard, two recipients honoured by the U of A for their support of student learning.

The pair of U of A staffers developed an internship program that lets students like Goebel, who graduated with an arts degree in 2009, work with non-profit community organizations.

Now in the working world herself, Goebel is using the know-how she gained to help other students find community-based learning opportunities and along the way, grow as citizens.

"Being in the internship program really shaped what I wanted to do. Once I got started, I got really excited about the whole thing," Goebel said. "Joan and Lorraine made the program what it is."

Along with Mathieu Trépanier, a third U of A staff member from Campus Saint-Jean, Schiebelbein and Woollard are this year's winners of the university's Excellence in Learning Support award, which recognizes members of the U of A community whose role doesn't involve teaching, but who still contribute in a meaningful way to the student learning experience.

They are among more than 300 scholarship winners, award-winning teachers and staff being honoured Sept. 24 at the U of A's 15th annual Celebration of Teaching and Learning.

In their respective roles with the U of A's Career and Placement Services and the university's Community Service-Learning program, Schiebel-

bein and Woollard helped develop the Non-Profit Board Student Internship in 2006. Since then, the internship has launched 50 undergraduate and graduate students from several faculties into the not-for-profit sector. There, they learn how to serve on boards and, as part of their placements, complete projects that benefit the organization with which they're volunteering.

Along the way, they discover more about themselves and how they want to make a difference to society.

"We have students whose careers took a total turn because of what they learned about themselves through their participation in the program," said Schiebelbein, director of Career and Placement Services.

"It exposes students to different types of careers they wouldn't have thought of otherwise. As well, it helps them build connections they can rely on once they do start looking for work."



## CELEBRATION OF TEACHING & LEARNING

The internship was developed to offer a non-credit activity for students interested in pursuing a certificate in Community Service Learning, but is also open to those pupils interested in learning more about the not-for-profit sector and getting experience at the board level.

Goebel, who interned on the board of the Bissell Centre in Edmonton in 2008–09, was grateful for both Schiebelbein's "gentle certainty" and Woollard's "persistent praise and encouragement" as she worked her way through the internship. "They ensured my continued success with enthusiastic and imaginative feedback."

"It's an unbelievably rewarding program for the students," said Woollard, administrative director of CSL. "Some

of them have stayed on with the boards they have interned with. Others have taken on jobs in the non-profit sector and leadership roles as a result of this program."

Schiebelbein and Woollard are proud to help students along in their journeys of discovery.

"Anything we can do to open more doors to learning makes for a better society of fully engaged citizens," said Woollard. "As a university, we have an obligation to provide a variety of opportunities to students while we have them in our care."

Trépanier, the third recipient of the staff award, is being recognized for his strong commitment to enriching the student experience at Campus Saint-Jean.

As student life co-ordinator, Trépanier guided students in planning such high-energy events as the LipDub project, which pulled together about 100 CSJ students who sang and danced for a video takeoff on a hit song. The feel-good video was posted to YouTube and garnered almost 14,000 hits.

"After the video was shot, one student told me he met people that he'd never seen before on campus. That was incredible, because I felt I helped bring people together," Trépanier said.

He also helped students launch a French entrepreneur club, organized a leadership summit and created an awards ceremony to honour the hard work of CSJ's student club executives and volunteers.

"I see my role as a guide for students, helping them develop life skills and become more responsible. When I see that by the end of their degrees they are less shy, more outgoing and spend their time better, it's a great feeling."

Trépanier's mission has always been to help develop citizens, not just graduates.

"We want to create experiences for students outside the classroom which are practical and complete their education within our walls." And though he has since taken another position on campus, he continues to be inspired by the energy and enthusiasm of students. "It keeps me young!" ■



(L-R) Joan Schiebelbein, Lorraine Woollard and Mathieu Trépanier are winners of the university's Excellence in Learning Support award.

**folio**  
UNIVERSITY OF ALBERTA

on the Web

[www.ualberta.ca/folio/](http://www.ualberta.ca/folio/)



## President's Town Hall

Please join President Indira Samarasekera for a town hall discussion and question and answer session.

Wednesday, October 6, 2010

8:30 am to 9:30 am

TL B1, Tory Lecture Theatre Complex (Tory Turtle)

All faculty, staff, and students are welcome.

Please register online

[www.president.ualberta.ca/events/vp.cfm](http://www.president.ualberta.ca/events/vp.cfm)

Enter code 1089

With questions, please contact [sheila.stosky@ualberta.ca](mailto:sheila.stosky@ualberta.ca) or 780.492.1525.



## Are You a Winner?

Congratulations to Michael Abenojar, whose name was drawn as part of folio's Sept. 10 "Are You a Winner?" contest, after he correctly identified the object in the photo as the Pelton wheel (part of the Pelton Turbine) on the second-floor pedway of the Mechanical Engineering Building. For correctly identifying the photo in question, Abenojar has won a copy of "The Beginning of Print Culture in Athabasca Country," courtesy of the U of A Press. Translated by Patricia Demers, Naomi McIlwraith and, Dorothy Thunder is a tangible piece of history for anyone interested in language, culture, the making of books and the process of settlement in Western Canada.

Up for grabs this week is a copy of "Locating the Past/ Discovering the Present: Perspectives on Religion, Culture,



and Marginality," edited by David Gay and Stephen Reimer, courtesy of the University of Alberta Press. This collection examines the production and recreation of religious ideas and images in different times and locations throughout history and around the world. To win a copy, simply identify where on campus the object of the picture is located. Email your correct answer to [folio@exr.ualberta.ca](mailto:folio@exr.ualberta.ca) by noon on Friday, Sept. 30, and you will be entered into the draw.





Michael Brown

## Governance 101: Good people equals good governance

*If there are aspects to the University of Alberta that you don't understand, chances are you're not alone. The university can be a complicated entity with many moving parts. To assist the campus community in better understanding who does what and how things get done at the university folio is introducing a new feature called University 101. This issue's topic is the first of a five-part series on governance.*

Michael Brown

Governance is the processes and practices through which an entity organizes to achieve its mandate. It is concerned with the structures and procedures for decision-making, accountability, control and codes of conduct. The goal of effective governance is a robust organization that achieves peak performance and is accountable to the people it serves.

According to Marion Haggarty-France, university secretary in the University of Alberta's governance office, the main component of governance at the U of A is its people.

"The U of A is well served by its members," she said of those—largely

volunteers—who serve on committees to create policy that helps move the university forward. "These members are committed to institutional governance on campus because they see this as part of their role of serving the university community."

Moreover, while governance provides the framework through which power is exercised, Haggarty-France says there is one golden rule of conduct that guides all involved: at the heart of good governance are the best interests of the university. "If everyone involved remembers to put the university first, in the end, we are going to have the right result for the university."

The U of A's style of governance is a bicameral, or two-chamber, structure, with power transferred from the province to the university by means of the Post-Secondary Learning Act, which was created in 2004 to guide all Alberta post-secondary institutions.

The two chambers—the 21-member board of governors and the 158-member General Faculties Council—along with their respective standing committees, in addition to the varying faculty and department councils, fall within the legislative branch

of the structure and are responsible for debating and approving policy.

"The board of governors, simply put, is responsible for the business, financial and auditing aspects of the university," said Haggarty-France. "Meanwhile, GFC looks after all academic matters—programs, students and procedures associated with academic appointments, promotions and dismissals."

**"If everyone involved remembers to put the university first, in the end, we are going to have the right result for the university."**

Marion Haggarty-France

Simplified further, Haggarty-France says items that fall under university business—the university plan, the budget and capital plans—go through the board for final approval, while "the GFC is the stopping point for the academic plan for the university."

And while governance shouldn't be confused with open consultation, Haggarty-France says the university has embraced open consultation by adopting a "collegial" approach to governance.

She explains collegial governance depends heavily upon the participation of colleagues to establish and realize a shared purpose and provides an opportunity for citizens to participate in decision-making.

For the staff member charged with, for example, shepherding a piece of legislation, a centre naming or a policy through the governance steps, the process might seem cumbersome. Navigating the "alphabet soup" of groups and committees such as the CLE (Committee on the Learning Environment), the BFPC (Board Finance and Property Committee) and the APC (Academic Planning Committee) may seem long and can be frustrating for items on a fast track, yet that consultation process means that along the way, stakeholder groups have a chance to have their say.

"The university feels more value is added when more parties can look at an issue," said Haggarty-France. "For example, the academic plan only

requires four committees to formally deal with it, but in the end, it might go through 40 different groups, so the document will have been seen and thoroughly touched, and will be a better document and reflect the academy."

And while there is a notion that university governance is awash in sub-committees of sub-committees, the U of A has one of the flattest academic governance systems in Canada. Haggarty-France says in the early 1970s, the GFC comprised 33 standing committees; today there are just 10.

"We try to serve the community, but at a certain point we had to ask why we have 33 committees—one committee recommending to another committee recommending to another committee," she said. "We have worked really hard to make sure committees are clear and have delegated authority."

"We have done our homework to make sure we honour the time people have spent on the committees, and we have committees that have the authority to do good work." Next issue we will examine the executive branch of the governance process. ■

## GFC hears about latest budget update

Jason Cobb

On Sept. 20, General Faculties Council heard that, as of Sept. 16, 48 staff have received involuntary layoff notices, an increase of five since was first reported to council in May.

The information came during a presentation to council from Provost Carl Amrhein and Vice-President (Finance and Administration) Phyllis Clark, who provided an update to council on the current operating budget as well as glimpse of what will be coming in budget discussions for 2011–2012.

"I promised council I would provide an update in the fall, and, as expected, there has been a small increase in the number of layoffs as budget calculations have been finalized and implemented," said Amrhein.

Council also heard that 28 staff had been redeployed to other existing positions within the university, and 182 staff from across the institution had opted for the Voluntary Retirement Incentive Plan. Amrhein indicated that discussions are underway with deans and directors to determine when and how many of these early

retirement positions will be filled.

Clark told council that the university is on target and may even improve from the forecast operating funding gap of \$14.8 million, indicating that other measures, such as furlough days and the personal leave program, are helping. Clark also indicated that while there is continued volatility in the markets, "the general uptick in growth generally is working in the university's favour and we're seeing our investments regain some of the ground they lost in the recession."

Looking forward towards next year's budget, Clark and Amrhein informed GFC that challenges on both revenue and expense sides of the ledger will keep the pressure on budget plans. In addition to an expected zero per cent increase in the base grant from the Government of Alberta, the university will be proposing a 0.35 per cent increase in tuition, the maximum allowable under the provincial regulations, which tie increases to the consumer price index. Contract negotiations with AASUA and NASA, as well as unfunded pension plan liabilities and inflationary and growth pressures, are also important considerations going forward this year. ■

## Rheumatology professor honoured for achievements in educational leadership

Ken Mathewson

Early 20th-century American author William Arthur Ward wrote: "The mediocre teacher tells. The good teacher explains. The superior teacher demonstrates. The great teacher inspires."

That being so, it's difficult to decide what category Stephen Aaron, professor of rheumatology with the Faculty of Medicine & Dentistry, best fits into, as he has not only gained a mastery of all four methods of teaching, but also has devoted his career to determining to what other teaching strategies students respond.

In appreciation of his extensive accomplishments in researching and refining the educational processes within the Faculty of Medicine & Dentistry, Aaron was awarded the E.N. Skakun Award for Service to Education in a ceremony at the Li Ka Shing Centre for Health Research Innovation Tuesday evening. The award was named in honour of Aaron's former research partner, Ernie Skakun, a founding member and director of psychometrics for the faculty's Division of Support and Studies in Medical Education.



Stephen Aaron

"This-peer adjudicated award recognizes the achievements of an individual who has made a major and long-term contribution to the educational leadership and scholarship in the Faculty of Medicine & Dentistry," said Fraser Brenneis, vice-dean of education. "Anyone who has had the pleasure of watching Dr. Aaron teach will quickly appreciate the level of teaching skill, educational insight, innovation, scholarship and enthusiasm that characterizes his performance."

Aaron took to the podium and delivered an entertaining and inspiring lecture, focused not on what he has taught his students over the years, but rather on the insights he has gained from them.

"Like most of us, I was never formally taught to be a teacher," said Aaron. "To work in a school and work with children, you need a degree. You need to be taught how to teach. I realize that if I know anything about teaching and education, I learned it from my students."

If that's the case, his students have taught him well. Aaron holds an impressive list of credentials, awards and accomplishments. In his tenure with the faculty, he has acted as vice-chair

of education, associate director for the Division of Support and Studies in Medical Education; he has served as clinical skills director for the faculty and as pre-clinical curriculum coordinator, and as director of rheumatology postgraduate training.

However, his distinguished educational background hasn't hindered his ability to present complicated material in a way that's understandable to the masses. Nor has he forgotten the benefits of knowing when to let students educate themselves.

"You have to put yourself in the student's position," he said. "You don't know where you are unless somebody tells you."

"Think about your daughter learning to drive a car. She may have been driven to school a 1,000 times, but it's not until she actually drives herself and has to be responsible for getting there that she really knows the directions."

Aaron says that despite possibly taking on too much, too soon in his career, there have been substantial advantages to adopting such a wide variety of tasks and responsibilities.

"It was probably foolhardy, but I found it all enjoyable, and it gave me an opportunity to learn about the breadth of education," he said.

"But really, the thing I like the most is just working with the students." ■





Marek Michalak and Allison Kraus worked with an international team of medical researchers that discovered shutting off an important gene causes mobility issues reminiscent of neurological diseases like multiple sclerosis.

## Gene shutdown leads to neurological disease breakthrough

Raquel Maurier

Researchers at the University of Alberta have discovered that shutting off an important gene in the body causes mobility issues, reminiscent of neurological diseases like multiple sclerosis.

The discovery may have major implications for neurological diseases and other disorders of the nervous system that deal with something called myelin impairment. Myelin is the protective coating around neurons and is important because it allows messages to quickly travel within the nervous system.

Two scientists from the Faculty of Medicine & Dentistry, Marek Michalak and Allison Kraus, made the discovery while working with an international team of medical

researchers, including colleagues throughout Alberta. About five years ago, Michalak and Kraus decided they wanted to research a specific type of gene that is responsible for the protein folding ability in cells. Depending on the protein and their purpose in a cell, they "fold" themselves into certain shapes to perform their function. They assemble themselves based on the instructions they get from genes in the cell. But if protein-folding functions in cells don't work properly, people can acquire a host of diseases, including multiple sclerosis.

The duo wanted to specifically study what would happen if they removed a specific chaperone, a protein used in the cell-folding process, called calnexin. In doing so, they inadvertently created a neurological disease in their experimental models. There were numerous mobility issues produced and the speed of messages being relayed in the nervous systems of the test subjects were delayed as well. The symptoms displayed were very similar to the symptoms seen in people with myelin impairment diseases such as MS and Charcot Marie Tooth disease, a neurological disorder.

"It was a surprise," says Kraus, a PhD student. "We never expected to find out what we did. Then we needed to expand our study and that's when it became a bigger and more collaborative effort with numerous researchers around the globe becoming involved."

Michalak and Kraus say their findings provide a step forward in understanding the complexity of neurological diseases and may one day lead to the development of better treatments. The next step for researchers is to study DNA from people to see if the gene contains mutations that could contribute to their neurological disease.

The results of the duo's research, recently published in the *Journal of Biological Chemistry*, clearly showed for the first time that chaperones impact myelin, something that no one had realized until now.

"Myelin diseases are so diverse and so tricky to figure out," says Michalak, a professor in the department of biochemistry. "Nobody understands why these diseases, which cause people to progressively lose their motor functions, happen. We have discovered a new player in myelin diseases that was never considered before." ■

## Test to pinpoint preeclampsia on the way

Raquel Maurier

A team of researchers from the University of Alberta is on the cusp of developing a simple test to accurately predict whether a woman will develop preeclampsia, a condition that affects four million women a year and can result in the death of both mother and baby.

The test, which can be administered as early as 15 weeks, is possible thanks to an international study that pinpointed a "metabolic fingerprint" in women who later develop preeclampsia, which is marked by high blood pressure and high protein levels in urine. The metabolic fingerprint is a combination of 14 metabolites or sugars, fats and amino acids.

There is currently no predictive test for preeclampsia, a leading cause of maternal death worldwide and which can strike at anywhere between 24–40 weeks gestation. And the only way to cure the condition is to deliver the baby, usually weeks or months premature.

But in the test developed by this team, for every 100 women tested, the majority who would later develop preeclampsia were identified with fewer false positives (about 21 per cent).

"Developing a predictive test for preeclampsia has been called the obstetrics' Holy Grail," says Louise Kenny, a principal investigator who took the lead on the research. She is an adjunct professor at the U of A and a professor of obstetrics and gynecology at the Anu Research Centre, University College Cork, in Cork, Ireland.

Philip Baker, dean of the Faculty of Medicine & Dentistry at the U of A, is also one of the principal

investigators and the senior author of the study. He says the implications for this finding are far reaching and could impact women worldwide.

"If we can bring the rates of maternal deaths in undeveloped countries down to the rates in developed countries by being able to determine which women are at the greatest risk for developing preeclampsia, then it has that potential to save thousands of lives." ■



Researchers Philip Baker and Louise Kenny, with the Faculty of Medicine & Dentistry at the University of Alberta, discovered pregnant women who later develop preeclampsia have a metabolic signature.

WE SUPPORT  
  
United Way

UNIVERSITY OF ALBERTA  
**UNITED WAY  
2010 CAMPAIGN**



### 51st Annual Turkey Trot

*Presented by Campus Recreation*

**Saturday, October 2, 2010 10:30 am**

Deadline for entries September 29 at 7:00 pm

Register online or in person starting  
Monday, September 13

[www.campusrec.ualberta.ca/turkeytrot.cfm](http://www.campusrec.ualberta.ca/turkeytrot.cfm)

or at the **Recreational Sports Office W90 Van Vliet Centre**

For more information call 492-3614

*In support of the UofA United Way Campaign*



### ABCs to PhDs

Tempo turns students into extraordinary learners. With a focus on the classics – language and math – we develop the skills that help your children thrive. School uniforms, small classes, teachers with passion – these are the ingredients that make Tempo the top high school in Alberta. Does our unique approach to education work? We like to think so. After all, Tempo students consistently beat the provincial average on achievement tests and diploma exams by as much as 20%.

We think your child deserves the best.  
Tempo delivers.

**TEMPO  
SCHOOL**



Visit our website: [www.temposchool.org](http://www.temposchool.org)  
Tempo School 5603 - 148 Street  
Edmonton, AB T6H 4T7  
(780) 434-1190



## Alumni Weekend events

Sept. 24

**Kick-Off Party & Bears Game.** Pregame festivities start at 6 p.m. and kick-off is at 7 p.m.

Sept. 25

**Scholars Series.** Reinventing Democracy in Canada – Three Perspectives. 12:30–2 p.m. at the Katz Group/Rexall Centre (114 St. and 87 Ave.)

**Alumni Dinner & Dance.** 6 p.m. in the Ballroom at the Edmonton Exposition Centre (Northlands). \$65 per person. For tickets call 780-492-3224 or purchase tickets at the Welcome Area (main floor, Students' Union Bldg) on Friday, Sept. 24 (8 a.m.–6 p.m.) or Saturday, Sept. 25 (until 2 p.m.)

Sept. 26

**Green & Gold Breakfast.** 10 a.m., Ballroom, Westin Hotel, \$30. Keynote speaker is U of A alumnus and Vancouver 2010 gold medalist Marc Kennedy.

**University Symphony and Symphonic Wind Ensemble in Concert.** 2 p.m. at Convocation Hall, \$15.

For more information go to [www.alumni.ualberta.ca/Celebrate/AlumniWeekend.aspx](http://www.alumni.ualberta.ca/Celebrate/AlumniWeekend.aspx)

# Alumni Weekend

WED SEPT 22 Alumni Awards

THURS SEPT 23 Award-winning speakers

SAT SEPT 25 Saturday Scholars Series

SUN SEPT 26 University Symphony

RE/MAX Real Estate Centre

## Ann Dawrant



[www.anndawrant.com](http://www.anndawrant.com)

- 25 years as successful residential realtor specializing in west and southwest Edmonton
- Consistently in top 5% of Edmonton realtors
- Member of prestigious RE/MAX Platinum club
- Born and raised in Buenos Aires and has lived in Edmonton since 1967
- Bilingual in English and Spanish

*"Call me to experience the dedicated, knowledgeable, and caring service that I provide to all my clients."*

[anndawrant@hotmail.com](mailto:anndawrant@hotmail.com) • (780) 438.7000 or (780) 940.6485

## Pecha Kucha night comes to campus

Sarah Ligon

The Centennial Centre for Interdisciplinary Science recently opened its doors for its first major public event—an event tailor made for the cutting-edge space. On Sept. 23, several hundred people turned out for Pecha Kucha Night 8, which the U of A Alumni Association, in partnership with Edmonton's Next Gen Initiative, brought to campus as part of its Alumni Weekend festivities.

Named for the sound of "chit chat" in Japanese, Pecha Kucha Nights started in Tokyo as a way for innovative young designers to get together and share their ideas. Now, Pecha Kucha Nights have spread to cities across the globe, allowing creative thinkers from all walks of life to share their thoughts on design, technology, arts and culture—and everything in between.

The new CCIS building was specially selected as the location for the event because of the building's innovative design and interdisciplinary nature. "The essence of Pecha Kucha Nights is to expose the audience to new ideas, innovations and perspectives. The purpose of this new building is also to unite the sciences through new ideas, innovations and perspectives. So it's a perfect fit for our eighth Pecha Kucha Night," said Ryan Stark, co-chair of the event for Next Gen.

The space itself gave participants plenty to talk about, as the public got a sneak peek inside the new LEED-

certified building, including a look at its striking terrazzo floors designed by artist Scott Parsons.

As its name suggests, the Centennial Centre for Interdisciplinary Science was created with intellectual cross-fertilization in mind. When it officially opens in 2011, it will house five teams of scientists from diverse disciplines so that they can pool their knowledge and resources and collaborate in ways not confined by traditional boundaries.

The unconventionality of the physical space mirrored the quirkiness of the presentations, which ranged from talks on urban food production to non-fiction literature and were given in Pecha Kucha's special "20 x 20" format: each speaker gives a presentation containing only 20 images, each shown for 20 seconds. The constraints are meant to challenge the presenters to clarify their ideas and match each thought with the perfect image.

The opening presentation was given by U of A President Indira Samarasekera, who spoke on the idea of the university beyond its iconic physical spaces—spaces such as the new science building. "Since becoming president, I can sometimes get caught up in the physical infrastructure of this place," said Samarasekera. "But I also try to spend time contemplating the idea of the university... that the university should be a place where curiosity and imagination are allowed full reign—and that knowledge should uplift and touch the lives of all people."

**"The essence of Pecha Kucha Nights is to expose the audience to new ideas, innovations and perspectives."**

Ryan Stark

## Distinguished indeed

The University of Alberta Alumni Association honoured 36 outstanding graduates at the 2010 Alumni Recognition Awards Sept. 22 at the Winspear Centre for Music.

The Distinguished Alumni Award recognizes the accomplishments of living alumni who have earned national and international prominence as a result of their achievements.

Through his talent, creativity, and enthusiasm, Bob Baker, '74 BFA, has shared his love of theatre with audiences around the world, and his impact will be felt for generations to come.

As a coach and mentor, Melody Davidson, '86 BPE, is a trailblazer who has left an indelible mark on the sport of women's hockey in Canada and around the world.

A pioneering spirit in the biochemistry community, Lillian Fishman, '36 BSc (HEC), has had a lasting impact on cancer research as co-founder of the Sanford Burnham Medical Research Institute.

David W. Krause, '71 BSc, '76 MSc, is a world-renowned vertebrate paleontologist who has made groundbreaking discoveries and remarkable humanitarian contributions.

Myron, '60 BSc, '64 MD, and Elaine Semkuley, '62 BSc (Pharm), have made an immeasurable difference in the world through their volunteer organization Medical Mercy Canada.

Ultimate in East Indian Cuisine  
SERVING EDMONTON FOR 25 YEARS

5 LOCATIONS

**South**

9308  
34 Avenue

**North**

320 Manning  
Crossing

**Central \*\***

10143  
Saskatchewan  
Drive

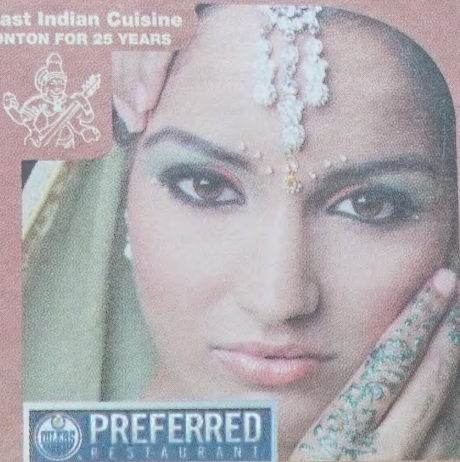
**West \*\***

17507  
100 Avenue

**Sherwood Park**

200, 10A Main Blvd

**\*\*Recently Renovated**



PREFERRED RESTAURANT

NEW ASIAN VILLAGE

call at: **780-482-1111**

weblink: [www.newasianvillage.com](http://www.newasianvillage.com)  
[newasianvillage@shaw.ca](mailto:newasianvillage@shaw.ca)

connect  
by Hertz

Join the U of A's  
car sharing service.

Learn more about this great program  
at [www.connectbyhertz.com](http://www.connectbyhertz.com) or  
1.877.654.4400 or contact Jon Ward at  
Ancillary Services at 780.492.3205.





Truly  
spacious  
suites  
give you  
**ROOM to  
MOVE.**

*Live like home.*



**CAMPUS TOWER** SUITE HOTEL

11145-87 ave edmonton ab toll-free 1.800.709.1824 [campustower.com](http://campustower.com)



## A crash course in cultural sensitivity

Michael Brown

Approaches to the way patients are cared for in a health-care system varies globally based on cultural mores. The convergence of these differing health-care models in Canadian society has led to certain sensitivity challenges in the delivery of all aspects of health and wellness, including nursing care. In an effort to address these challenges, the University of Alberta has given the green light to a project that introduces cultural competence directly into the classroom.

Gina Higginbottom, associate professor in the Faculty of Nursing and Canada research chair in ethnicity and health, has been awarded \$48,000 from the U of A's Teaching and Learning Enhancement Fund to develop a self-directed cultural competence workbook and digital resource.

Entitled *Providing Culturally Competent Health Care – A Self-Directed Workbook and Digital Resource*, Higginbottom says with this project she hopes to shine a light on the teaching resources that facilitate the development of cultural competencies of nursing students.

"The paths of migration to Edmonton have changed in recent decades," said Higginbottom. "Clearly this impacts upon health-care delivery for nurses because many aspects of health and illness are culturally defined.

"We need to prepare our student nurses to nurse in the 21st century."

Higginbottom says that, while this program will initially target students in the nursing faculty, she will also seek opportunities to ensure this funding leads to cross-disciplinary initiatives that aim to improve the cultural competencies of students across the health-science disciplines.

"Education is central to the business of the U of A, it is also important that, along with research, we deliver cutting-edge education and are able to promote innovation in education," she said.

Higginbottom, who is currently undertaking a study looking at

maternity experiences and outcomes of recent immigrant women in both rural and urban Alberta, says it is this type of culturally relevant innovative curriculum that boosts the U of A's international reputation as a first-class research and educational institution, which attracts top international talent from around the world.

Recently, Cassie Kenny, a post-doctoral fellow from New Zealand and Jayantha Dassanayake, an exercise physiologist from Australia, decided to continue their studies within the U of A's Faculty of Nursing. "This highlights the fact that post-doctoral fellows are prepared to relocate very large distances to come work at the U of A. I think that says something about our international standing." ■



Gina Higginbottom

## Mother Nature inspires biomedical engineering research

Kathleen Cameron

Like many engineers before him, John Nychka is turning to Mother Nature to help solve a problem.

Nychka, a materials engineering professor in the Department of Chemical and Materials Engineering, is studying wettability—how fast a liquid (such as water or a solvent) will seep through the dust or grime on top of, and then reach and adhere to, an object's surface—and its possible implications in biomedical and biological materials.

Nychka's interest in the subject came while he was creating coatings for industrial uses.

He and his graduate student, Jadid Samad, noticed that some of the materials displayed funny behaviour: the water didn't wet, or spread out on the surface of all of the materials. Nychka's natural curiosities were piqued, which lead him and Samad to examine the wettability of leaf surfaces, which also display water-shedding abilities, and how these principles could be mimicked to engineer new coatings.

Leaves display surface modifications that affect whether they are water-spreading or repellant surfaces. Degrees of wettability are affected by the chemical nature and roughness of the surface.

"We want to understand how to explain, or even change, the wettability of a surface," Nychka said. "Once we understand the properties that

affect the wettability, we can start to apply those concepts in our own research. So far we have been pretty successful."

Nychka decided to focus his attention on wettability as it pertains to biomedical and biological materials science, a decision that landed his paper—and a photograph he took of a water drop on a leaf—on the cover of the scientific journal, *JOM*.

As Nychka explains, "people are coming up with all these new materials in biomedicine, but ultimately these materials are going into the body where there are fluids, and they have to interact. We have to understand how these materials are going to behave."

The wetting of solid surfaces by biological fluids is often necessary so that a foreign material is accepted by

the body. In the same respect, applications in biomimicry and biomaterials often require interactions with liquids, so the implications of wettability can be substantial.

Interest in this area of research is spreading, and Nychka is giving an invited talk at the 34th International Conference and Exposition on Advanced Ceramics and Composites in Daytona Beach in January. His talk deals with manufacturing ceramic oxide coatings to mimic hydrophobic plant leaves.

"Now that we have these great ideas, it's a question of can we run with this and turn it into something," says Nychka. "Mother Nature has good solutions, and we need to adapt them to engineering materials in order to help society." ■



Materials engineering professor John Nychka has studied the surface structure of leaves to develop water-resistant surfaces.

## U of A welcomes first writing studies distinguished visitor

Christina Grant

As the writing studies program's first ever distinguished visitor, Cheryl Glenn—author of *Unspoken: A Rhetoric of Silence*—is bringing the best of her cutting-edge scholarship and wide experience to hundreds of students, instructors and others in a packed, two-week visit, which ends Sept. 28.

Glenn, a liberal-arts research professor of English and women's studies at Pennsylvania State University, helped develop a daunting itinerary that has her visiting every fall-term U of A writing studies class, including Anglais 126 at Campus Saint-Jean.

"The draft of the new Academic Plan for the university emphasizes connections between learning, discovery and the community," said Roger Graves, director of Writing Across the Curriculum in the Office of Interdisciplinary Studies where writing studies is housed. "These connections can only come through language used to persuade and shape understandings—through rhetoric. Cheryl Glenn is an internationally recognized and accomplished scholar whose workshops, lectures and class visits help the university community understand how to use both language and silence to build better communities.

"Her work builds bridges across disciplines, faith groups, ethnic groups and genders to help us better understand ourselves, others and the ways we communicate in the university and the

community."

Glenn's work focuses on the rhetoric of silence as well as histories of women's rhetoric and women's writing practices. She explores contexts and processes for the teaching of writing and examines inclusionary rhetorical practices and theories.

"There are many wonderful teachers who don't do cutting-edge research," said Glenn. "I don't think it's a prerequisite for good teaching. But being mentally active and intellectually curious are, and we employ and engage our curiosity in

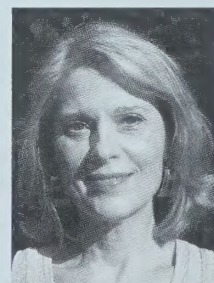
different ways."

Glenn's work has earned her many awards, however, Glenn is quick to point out the working partnerships

with colleagues around the world, as well as a position which allows time for research.

"I don't always find balance," she admits. "But I have an invigorating career that I love, so I don't worry about it. I get to travel and meet students from around the globe.

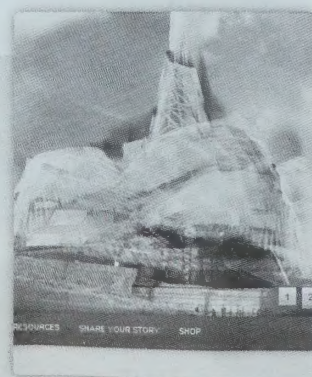
And I get to sit in on courses that I didn't dream of. It's a pretty good life." ■



Cheryl Glenn

## surf city

Located in Winnipeg, the Canadian Museum for Human Rights is Canada's newest national museum, with a mission to enhance the understanding of human rights, to promote respect for others and to encourage reflection and dialogue. The museum's website not only holds a wealth of information about exhibits and programs within the institution, but also contains resources about human rights in Canada and around the world. Historical documents, audio and video clips from exhibits and

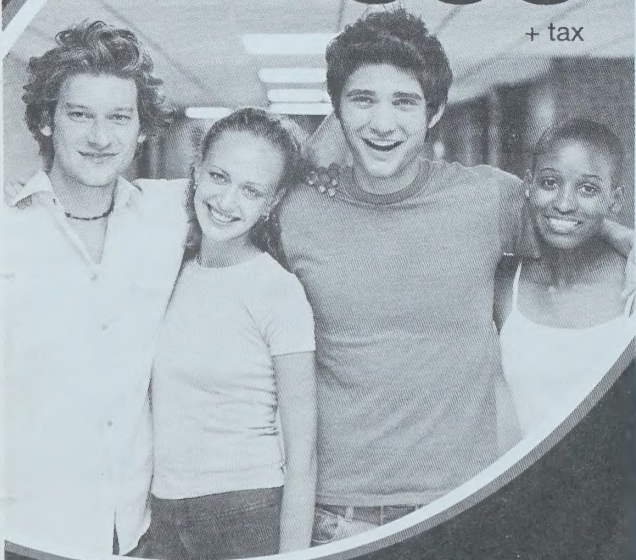


a background of the evolution of human rights in this country are available to all visitors.

<http://humanrightsmuseum.ca/home>

**STUDENT SPECIAL**  
The good life. Made easy.

Join Today!  
only **\$399**  
+ tax



**GoodLife  
FITNESS**

**1-800-597-1FIT**  
**goodlifefitness.com**

\*When joining you will be required to pay \$399 plus applicable tax. No additional fees are required above the specified membership fee. Must be 18 years of age or older with a valid student ID. Membership expires 8 months from date of purchase. Limited time offer. Offer valid at participating clubs only. Other conditions may apply, see club for details.



# Augustana campus opens Student Forum and library

Christopher Thrall

On Sept. 21, Augustana Campus celebrated its first new building in 20 years. Dean Roger Epp, U of A President Indira Samarasekera and Minister Ray Danyluk were among those who attended the Student Forum and library opening in Camrose.

While the library opened its doors in September of 2009, Augustana Campus chose to celebrate its formal opening after finishing the sweeping Student Forum three months ago. The ceremony is part of Augustana's ongoing Centenary celebrations.

"We waited 30 years for this building, but we received a space well worth waiting for," said Epp jokingly. "This forum says that the learning that happens outside the classroom is as important as what happens inside. It is a place

where there will be chance meetings of professors and students, where students can have a coffee and debate. And, in the end, this building represents the partnership between the world-class University of Alberta and our proud rural community—a partnership that is forged at Augustana."

"Augustana has always been a campus recognized for its strong sense of community and connection," said President Samarasekera. "This new building is a physical manifestation of these foundational values. It links together all kinds of other spaces—the library, the gym, the chapel, the cafeteria and classrooms. In a sense, this new building serves the entire human being—feeding and exercising the body, the mind and the spirit. As a forum for debate and exchange, it is also a place that will breathe constant life into the U of A's motto—*quaecumque vera*—

which urges the continual pursuit of whatsoever things are true."

Ray Danyluk, Alberta's minister of infrastructure, "Don't see this new library as just a great collection of books, but rather as a collection of opportunities for every visitor," he said to the students.

Mary-Jo Romaniuk, acting head librarian for the U of A's university libraries, agreed. "The new Augustana Library is an inclusive and transformative learning space offering the Augustana faculty, staff and students, as well as the Camrose community, access to not only a wealth of electronic resources, but also to more than 130,000 items in the print collection. The new library is also a gateway to access the more than 10 million items available in the U of A libraries' collections."

In constructing both the Student Forum and library, materials and

fixtures were carefully chosen to have a low environmental impact: high-efficiency lights save energy, polished concrete floors require little maintenance and passive heating and cooling systems reduce energy costs.

"We are proud to have delivered on our promised growth plan, made to the Augustana and Camrose communities during merger discussions with the U of A. We thank the government

for recognizing the importance of our out-of-class space to everything that happens at a university," said Epp. ■



(L-R) Dean Roger Epp, U of A President Indira Samarasekera and Minister Ray Danyluk were among those who attended the unveiling of Augustana Campus' first new building in 20 years, the Student Forum and library.

## Software that's a good listener

Nadia Anderson

Ever asked, 'Are my ears working? What did you say?'

If you have kids or have been around them, those words have probably crossed your lips. For Megan Hodge, University of Alberta professor of speech pathology and audiology, these questions have become her passion.

In 2001, along with colleagues in linguistics and psychology, Hodge applied for grant funding from the Canadian Language and Literacy Research Network to develop software that could gauge children's spoken language intelligibility at the word and sentence level; specifically, how well their words can be understood by unfamiliar listeners. The software is targeted for children with speech disorders that are related to how the

brain controls speech.

With this software, children three years and older are placed in front of a screen and an image appears, accompanied by an audio recording of what the image is. The audio recording contains up to seven words and the child is asked to remember and then repeat what he or she heard. Via a microphone, the software records the child's response. Later, listeners are brought in to identify what the child said, based on the recordings. The software collects this information from listeners and analyzes the data. The results provide a measure of the child's speech intelligibility, a useful indicator for the severity of a speech disorder and how this may change over time.

Word got out about Hodge's software and the next thing she knew she was receiving messages from around the world with interest in licensing

her technology. This was her first experience with technology transfer, which led Hodge to connect with the U of A's technology transfer agent, TEC Edmonton.

Working with Darrell Petras, TEC Edmonton's technology transfer manager, made it a very positive experience, says Hodge. "It has definitely been a partnership between us, a cross-education of sorts. Darrell is very knowledgeable and has been patient and helpful in walking me through the licensing process. I liked that he is responsive to my questions and concerns in a timely manner. In turn, he has learned a lot about working with speech-language pathology researchers and services."

To date Hodge's software has been licensed twice locally—to a speech therapy contractor for schools, who works in the Edmonton area, and to the Glenrose Rehabili-

tation Hospital – Alberta Health Services.

With the launch of her website increasing her exposure, Hodge has also licensed the software to the New Zealand's Massey University, and is fielding requests from researchers across Canada, the United Kingdom, Australia and the United States.

Petras continues to send out software transfer agreements (similar to an option agreement) letting researchers try out the technology for a short period of time, before they license it.

Hodge has some sage advice about her commercialization experience, "Developing and maintaining software is no simple feat. It requires time, human and financial resources. However, the end result—connecting my passion to a tool that can make a difference in a child's life—well, that says it all." ■

**TEC**  
TEC Edmonton

2010 - 2011 SEASON

anton kuerti, piano  
+ jacques thibaud trio  
SATURDAY, OCTOBER 9  
CONVOCATION HALL

paolo pandolfo, viola da gamba  
SATURDAY, NOVEMBER 27  
ROBERTSON-WESLEY UNITED CHURCH

tafelmusik baroque orchestra  
SATURDAY, JANUARY 29  
CONVOCATION HALL

SHANGHAI QUARTET  
SATURDAY, MARCH 5  
CONVOCATION HALL

the tallis scholars  
THURSDAY, MARCH 24  
MCDougALL UNITED CHURCH

rebel  
FRIDAY, APRIL 1  
CONVOCATION HALL

ALL CONCERTS AT 8 PM.  
TICKETS FROM TIX ON THE SQUARE, THE GRAMOPHONE AND AT THE DOOR.

Foundation  
for the Arts

edmonton  
arts council

Edmonton

ckua

EDMONTON  
JOURNAL

THE EDMONTON  
CHAMBER MUSIC  
SOCIETY

WWW.EDMONTONCHAMBERMUSIC.ORG



# news [shorts]

folio presents a sample of some of the research stories that recently appeared on ExpressNews, the U of A's online news source, and other campus news sources. To read more, go to [www.expressnews.ualberta.ca](http://www.expressnews.ualberta.ca).

## Mini Medical School is back

The Bernard Snell auditorium was unusually lively for a Tuesday evening Sept. 14, as the theatre filled for this year's first installment of the fourth annual Mini Medical School lecture series offered by the Faculty of Medicine & Dentistry.

In this year's inaugural address, Jill Konkin, associate dean of rural and regional health, engaged a crowd of more than 60 "quasi-medical students" on the challenges of establishing functional, effective health care in Canada's rural communities.

And she's hardly telling tales out of school. Konkin spent 16 years as a family doctor in Jasper, and has spent most of her 27-year career working towards improving health and wellness in remote areas of Alberta and across the country.

According to Konkin, the challenges of providing adequate medical resources to rural areas are substantial, but not insurmountable. The solution lies partially in recognizing the diversity between localities.

"If you've seen one rural community, then you've seen one rural community," said Konkin. "As we've all seen in our major cities, there are different mixes and different population needs, and rural communities are no different."

Mini Medical School, a popular six-week public lecture series put on by the faculty's Division of Continuous Professional Learning, is intended for anyone interested in medicine. This year's series, which covers such topics as surgery, pathology, nutrition, dentistry and acupuncture, is designed not just to give prospective students an impression of what medical classes entail, but also to equip members of the general public with a greater understanding of medical terminology and procedures, and to help facilitate communication with their general practitioners.

The series runs every Tuesday evening until Nov. 2. You can sign up for individual lectures if you can't attend all six. Individuals looking to register are encouraged to do so online at [www.cpl.ualberta.ca/Home/Events/mini.cfm](http://www.cpl.ualberta.ca/Home/Events/mini.cfm). Registration desks are also available onsite each evening beginning at 6:30 p.m.

## U of A uses technology to address shortage of rehabilitation professionals in rural communities

This September the University of Alberta's Faculty of Rehabilitation Medicine is bringing its master of science in physical therapy program to Camrose, Alberta. By using high-definition video and audio, 10 students at the Augustana campus in Camrose and 70 students in Edmonton will study in synch.

The students in Camrose will be able to view, interact and experience the same labs and lectures as their Edmonton classmates by using real-time and high-definition video conferencing. Clinical placements will be held in Camrose, allowing students to get hands-on experience in a rural setting. Renovations were completed this summer to produce a state-of-the-art lab and classroom for students in Augustana.

The goal of this program is to help address the shortage of rehabilitation professionals in Alberta's rural communities. Currently, 40 per cent of the province's population lives outside of Edmonton and Calgary and only 10 per cent of physical therapists work in rural settings.

"We need to train more professionals who will practice in rural communities," said Roger Epp, dean of Augustana Campus, "and the University of Alberta's Augustana Campus is well placed to meet those needs. The addition of physiotherapy to the programs offered at Augustana translates into real benefits and opportunities for the students, the campus, our community of Camrose and rural Alberta as a whole."

## 100 Years of Golden Bears football

The year 2010 marks the 100th season of University of Alberta Golden Bears' football, which will be celebrated on Sept. 18 against the University of Calgary Dinos.

The Golden Bears trail the Dinos in their all-time series, having won 37 of their 81 previous contests.

In 611 games, going back to 1910, the Golden Bears have amassed a 325-277-9 record, for a .547 winning percentage in the regular season. They are the owners of 18 Canada West conference championships and three Vanier Cup titles (1967, 1972, and 1980).

More than 70 players have moved on from the U of A for the professional football ranks, including: Brian Fryer (NFL, CFL), Joe Poplawski (CFL Hall of Fame), Mel Smith (CFL), Blake Dermott (CFL All-Star), Trent Brown (CFL All-Star), Jamie Stoddard (CFL), and Simeon Rottier, the first Golden Bear to go first overall in the CFL draft.

The 2-1 Golden Bears will play the University of Saskatchewan Huskies on Sept. 24 at Foote Field as part of the U of A Alumni Weekend festivities. ■

# Studio Theatre journeys to the underworld

Michael Brown

In the original version of the Greek tragedy of Orpheus, the fate of Eurydice's future as she languished in the underworld rested in the hands of her heartbroken, lyre-playing husband for which the tale is named.

Fast forward a few millennia. The love story still sizzles and the tragedy still haunts, but gone is the damsel in distress, replaced by a Eurydice who has seized at least part of her own destiny.

Eurydice's stay in the netherworld and her struggles to keep love alive beyond the grave are the subject of Studio Theatre's latest offering, a retelling of a timeless love story—*Eurydice*.

Directed by master of fine arts directing candidate Dave Horak, this re-imagining of the Orpheus myth plays out from the point of view of its heroine, Eurydice. It combines quirky contemporary characters and breathtaking visual effects to create a weird and wonderful rhapsody about the pleasures and pains of memory, love and loss.

In this take, Eurydice is reunited with her recently deceased father and is torn between the chance to return to her former life with the love of her life, Orpheus, who had descended to bring her home, or to stay in the underworld.

"Because the playwright Sarah Ruhl has focused on Eurydice, there is another dimension to the play," said Harden. "Eurydice is dealing with grief in a lot of different ways. While she is still madly in love with Orpheus, she is still grieving her father."

"Like all hard decisions, I think people can relate. You may not have been to the underworld, but we've all had to make difficult decisions in our lives."

A tricycle, a string house, an elevator



Dave Horak, director of "Eurydice," on the set of his play.

that rains and costumes that situate the play at virtually any time in the 20th and 21st centuries replace the togas and the bare feet expected from a Greek tragedy.

"*Eurydice* is set anywhere and everywhere and nowhere all at the same time," said Harden. "There are costumes from the 1930s, '40s and '50s; there are modern costumes, all in an effort to throw expectations off. You might come in knowing something about the myth or you might know something about Greek theatre, but whatever your expectation, it is going to be thrown off."

Evening performances of *Eurydice* run at the U of A Timms Centre for the Arts from Sept. 23–Oct. 2, at 7:30 p.m., with a \$5 preview Sept. 22 at 7:30 p.m. A matinee performance is scheduled for Thursday, Sept. 30 at 12:30 p.m. There is no performance Sunday, Sept. 26. There is also a sign language interpretation during the Oct. 2 show.

Tickets are on sale now, available for \$10–\$20 at TIX on the Square (780-420-1757) and online at [www.tixon-the-square.ca](http://www.tixon-the-square.ca), as well as in person at the Timms Centre Box office throughout the play's run. ■

## Stage drama

One of the key components to the telling of *Eurydice* is the impressive stage, which was the final element of Jennifer Goodman's masters of fine arts degree. All told, the stage took more than 300 hours to complete, which is one-third longer than the typical Studio Theatre stage. Goodman says some of the more interesting challenges included figuring out drainage for the play's raining elevator and the construction of the towering steel dome with compound curves.

"The set needed to start out in the real world and transform to the underworld," said Goodman. "We wanted it to reflect both the whimsical side of the play and the darker more repressive elements."

In the play, when Eurydice gets to the underworld she thinks she is on a train platform, which Goodman says was the scene for the set's inspiration.

"We incorporated a lot of New York subway architecture and we found that it sort of resonated because a train platform is this sort of in-between place; it's neither here nor there. People are coming or going, and it's not usually a place of rest."

# classified ads

## ACCOMMODATIONS FOR RENT

CLARIDGE HOUSE. Short term, Oct. 21–Dec. 1/10. Furnished executive spacious 1 bdrm condo, 1 full bath, in-suite laundry. One block from U of A. \$1,550/month, includes utilities. Phone and cable extra. Building amenities, pool, hot tub, and one underground parking stall. Call Janet Fraser or Michael Jenner at 780-441-6441 or email [jennfra@interbaun.com](mailto:jennfra@interbaun.com). Gordon W.R. King & Assoc. Real Estate.

9929 SASKATCHEWAN DRIVE. 2 bdrms, 2 baths, 2,351 sq. ft. \$3,000/month. Commanding view of the river valley and city centre. Executive living at its best. Many high quality upgrades. Some hardwood floors, carpet. Finest facilities include indoor pool, party and games, exercise rooms. Executive spacious living. Balcony is enclosed. Two parking spaces underground. All utilities included. Available Oct. 1/10, possibly earlier. Call Janet Fraser or Michael Jenner at 780-441-6441 or email [jennfra@interbaun.com](mailto:jennfra@interbaun.com). Gordon W.R. King & Assoc. Real Estate.

GARNEAU LOFTS EXECUTIVE LIVING. Bdrms: 1, baths: 1, area: 1,237 sq. ft. rent: \$1,600/month. Enjoy the summer on your private 400 sq. ft. rooftop terrace. On a quiet tree-lined street in Garneau, this unique top-floor corner unit displays an open plan with high ceilings, big windows and a second storey loft that could be used as a great room, den or an extra bedroom. Providing over 1,260 sq. ft. of upgraded living, the condo features hardwood flooring, a large kitchen with center island, spacious master bedroom. Call Janet Fraser or Michael Jenner at 780-441-6441 or email [jennfra@interbaun.com](mailto:jennfra@interbaun.com). Gordon W.R. King & Assoc. Real Estate.

BEAUTIFUL FURNISHED HOME IN GREENFIELD. Newly renovated Greenfield gem. 3 bdrm, 2 bath, 1,500 sq. ft. house set in the scenic Greenfield area. Furnished to complement the new renovations. Basement is fully developed with nice accents. Close to

U of A new South Campus LRT, Southgate and Whitemud Freeway. Beautiful backyard and comes with attached garage. \$1,600/month. Available for six-month rental. Call Janet Fraser or Michael Jenner at 780-441-6441 or email [jennfra@interbaun.com](mailto:jennfra@interbaun.com). Gordon W.R. King & Assoc. Real Estate.

WEST COAST STYLE BI-LEVEL IN GRANDVIEW HEIGHTS. Bdrms: 5, baths: 2.5, area: 1,656 sq. ft. rent: \$2,200/month. Spacious southwest home in park setting. Grandview Elementary, bus service to South Campus, minutes from university and downtown on LRT. Two brick fireplaces, large kitchen, dining and living room. 3 bdrms up with 2 pc bath, laundry room on main. 2 bdrms down, office area and large family room, lots of storage. Beautiful backyard with deck and double garage. Call Janet Fraser or Michael Jenner at 780-441-6441 or email [jennfra@interbaun.com](mailto:jennfra@interbaun.com). Gordon W.R. King & Assoc. Real Estate.

EXECUTIVE RENTAL OR SALE. MLS #3236921. Prime Glenora location. Minutes to U of A, downtown. 4 bdrms, 2 baths. Quiet street, upscale community. Entire house professionally renovated. New double detached garage, landscaping. Six-month negotiable lease. Oct. 1, \$2,000/month. 780-491-0402. [bobnden@shaw.ca](mailto:bobnden@shaw.ca).

CONVENIENT LOCATION, GREAT VIEW, LARGE HOUSE. Close to golf course, schools, LRT, university and downtown. River valley view. 4 bdrms, 4 baths. Available now to May 31. \$2,500. 780-983-5299.

LOOKING FOR LUXURY + PEACE AND QUIET. We have a very unique modern, upscale rental opportunity at Shepherd's Gardens in Millwoods (close to the Grey Nuns Hospital). Custom designed 2,100 sq foot penthouse with modern decor. Hardwood floors, custom cabinetry, granite counters, floor to ceiling windows, two underground parking stalls, and storage cage(s). Two balconies – one off the master bedroom and a second 550 sq. ft. roof-

top garden with incredible views of the City. \$2,900/month inclusive. For a personal tour call John at 780-463-9810 or 780-719-6569. [www.shepherdsgardens.org/shepherds-gardens.html](http://www.shepherdsgardens.org/shepherds-gardens.html)

## ACCOMMODATIONS FOR SALE

QUICK POSSESSION. House for sale near U of A. 10815 69 Ave. \$315,000. Comfree #31905. 780-244-7743 or 780-700-0699.

MALMO PLAINS. Lovely bungalow, ideal location. Walk to Southgate LRT, mall, schools. 11208 49 Ave. Comfree.com #31637. 780-675-1132.

GARNEAU HOME, REDUCED. Unique opportunity. 1 block from U of A and river valley. 3 plus 1 bdrms, study and 2 baths. Google Comfree Edmonton and enter code #31204 for information.

BEAUTIFUL GARNEAU CHARACTER HOME. Built 1929. Retains many original features and has been enhanced by tasteful upgrades and renovations. 4 bdrms, 2 baths, library, and finished basement. For full details, see the listing on comfree.com #31597.

BUYING, SELLING OR LEASING A CONDO. I can help you. Call now Connie Kennedy 780-482-6766. Pioneer Condominium Specialist. Re/Max Real Estate. Virtual Tours. [www.conniekennedy.com](http://www.conniekennedy.com).

## SERVICES

TECH VERBATIM EDITING. Campus editing since 1993. All styleguides; medical terminology. Member, Editors' Association of Canada. Donna 780-465-3753 [verbatimedit@shaw.ca](mailto:verbatimedit@shaw.ca)

CASH PAID FOR QUALITY BOOKS. The Edmonton Book Store, 780-433-1781. [www.edmontonbookstore.com](http://www.edmontonbookstore.com).

DAVE RICHARDS CERTIFIED JOURNEYMAN CARPENTER. Complete renovation services. 30 years experience. References. No job too small 780-886-6005

**folio**  
UNIVERSITY OF ALBERTA

on the Web

[www.ualberta.ca/folio/](http://www.ualberta.ca/folio/)





Bev Betkowski

# Doll exhibit pays homage to Canada's women of the North

Bev Betkowski

It looks like a cuddly collection of teddy bears, but there's a lot more to the soft dolls starring in a new exhibit of Arctic craftsmanship at the University of Alberta.

The exhibit, now on display in the lobby of the Human Ecology building, pays tribute to the tough resourcefulness of Canada's Northern women, and also to the sometimes dark mythology that helped fashion the dolls.

"In Mother's Hood: Inuit Packing Dolls of Taloyoak," highlights the U of A's collection of Inuit dolls created by the women of Taloyoak, a tiny hamlet in Nunavut. The exhibit pays tribute to a long-standing tradition of self-sufficiency; in 1974, the women formed a craft co-operative and began using their sewing skills to make distinct

collector dolls to earn money for their families.

The exhibit also pays tribute to Inuit folklore.

Made of hardy wool duffel, the 12 dolls celebrate the women not only as gifted seamstresses, but also as mothers, entrepreneurs and keepers of legend. Co-curator Anne Bissonnette can't help cooing over the huggable collection, but notes there's much more to these dolls than just the warm and fuzzy factor.

"These dolls tell us about the Inuit, informing us of their universe, of their traditions—especially in terms of the women as seamstresses—and also of their ability to make a living today."

The craft co-operative was formed with the aid of a government subsidy in 1974 and operated until 1986, when government support dried up. The co-operative started again in 1995 and has

been running ever since, selling the soft sculptures to visitors who come North, on the Internet and through distributors. Though the dolls are neither old nor traditionally used by Inuit children, they represent 4,000 years of storytelling.

The stuffed keepsakes depict mostly animal personifications of mother and child, and feature the distinct northern tradition of carrying, or "packing," the child snugly in a baby pouch under the mother's parka hood.

"The women have used these dolls to tell the story of their own lives and natural environments. The Inuit have different ways of approaching the creation of the universe, animals and people. They are quite alive and witty, and they are not following the same narrative we are used to."

One of Bissonnette's favourite dolls depicts the figure of Thundergirl, whose parka carries a lightning child. Though

she looks comical, dressed in a blue parka and sporting cartoonish toes and hands, Thundergirl's story is grim. The character's origins come from the story of two abandoned orphans. Left to die, they chose to come back as thunder and lightning, to take revenge on the people who had migrated to new hunting ground and left them.

"There is an edge to these dolls," Bissonnette noted. "Here's this cute little doll, but also a cautionary tale. It's a story of revenge, but also an allegory on how people and the environment are linked."

"In Mother's Hood" is one of several projects celebrating the Canadian Circumpolar Institute's 50th anniversary at the U of A, and was co-curated by history student Christina Williamson.

The exhibit runs to Aug. 3, 2011 in the lobby of the Human Ecology Building on campus. ■

# talks & events

Talks & Events listings do not accept submissions via fax, mail, e-mail or phone. Please enter events you'd like to appear in folio and on ExpressNews at: [www.uofaweb.ualberta.ca/events/submit.cfm](http://www.uofaweb.ualberta.ca/events/submit.cfm). A more comprehensive list of events is available online at [www.events.ualberta.ca](http://www.events.ualberta.ca). Deadline: noon one week prior to publication. Entries will be edited for style and length.

## Until Jan. 14, 2011

**The John H. Meier, Jr. Governor General's Literary Award for Fiction Collection.** This exhibition presents examples of first editions of all the titles that have won Canada's prestigious Governor General's Literary Award for Fiction from its inception to the present. Noon–4:30 p.m. Rutherford Library.

## Until Nov. 9

**Mini Medical School.** Running every Tuesday for eight weeks, the Faculty of Medicine & Dentistry is presenting this lecture series on topics from dentistry and surgery to nutrition and acupuncture. 7–9 p.m. Bernard Snell Hall. Go to [www.cpl.ualberta](http://www.cpl.ualberta).

## Until Sept. 30

**Observe the stars in September.** Visit the U of A's astronomical observatory every Thursday evening in September from 9–10 p.m. All members of the public are welcome and admission is free. Please see our website for details on how to find the observatory. 9–10 p.m. Fine Arts Building.

## Until Sept. 29

**Visualizing an Ancient City: Archaeological Research at the Kastro of Kallithea in Greece.** What did ancient Greek cities look like? View the results of the archaeological project at the Kastro of Kallithea, a joint venture of the University of Alberta and the 15th Ephorate of Prehistoric and Classical Studies at Larissa in Greece. This exhibition presents visualizations of a heavily fortified Hellenistic city in Thessaly in the form of maps, 3-D models and photographs. Rutherford South Foyer Rutherford Library, North and South.

## Sept. 24

**Stephen Lewis Keynote Address.** Stephen Lewis, author of "Race Against Time" and chair of the Stephen Lewis Foundation—which is dedicated to turning the tide of HIV/AIDS in Africa—will be giving a presentation after a wine and cheese reception as part of the Alberta Council for Global Co-operation's Annual General Meeting. This event will showcase the incredible work being done by many Alberta-based organizations. 6–10 p.m. Arts and Convocation Hall.

**Golden Bears Football.** vs University of Saskatchewan Huskies. 7 p.m. Foote Field. For more Bears and Pandas athletics go to [www.bears.ualberta.ca](http://www.bears.ualberta.ca).

## Sept. 25

**Alumni Silk Painting Workshop/Fundraiser.** Silk Painting Workshop with Lesley Stafiniak, Proceeds to support the Clothing and Textiles Collection, sponsored by Department of Human Ecology; \$75 registration fee (includes class materials), numbers are limited; call to register by Sept. 20. 9:30 a.m.–noon. 130 (Lab) Human Ecology.

## Sept. 25

**Putting Economics back in the Home – The Failure of the Financial Industry in Teaching Canadians how to Handle their Money.** The U of A's Rein Selles and Patricia French will be on hand to discuss the failure of the financial industry in providing money management education for Canadians. 10 a.m.–noon. Human Ecology Building 301 Human Ecology.

**Reinvigorating Democracy in Canada: Three Perspectives.** With voter turnout declining and regard for politicians plummeting, there is a growing sense that something has to be done to get democracy in Canada back on track. Panelists include Ricardo Acuña of the Parkland Institute, Satya Das, award-winning journalist and founder of Cambridge Strategies and Kim Krushell, Edmonton City Councillor. 12:30–2 p.m. Myer Horowitz Theatre, Students' Union Building.

## Sept. 25

**5th Annual Hurtig Lecture on the Future of Canada – Featuring Mary Simon.** Mary Simon, national leader of the Inuit Tapiriit Kanatami and Order of Canada recipient, will deliver the Fifth Annual Hurtig Lecture. Simon's distinguished career has been devoted to advancing Aboriginal rights and achieving social justice for Inuit and other Aboriginal peoples nationally and internationally. Simon argues that "for the lessons of history to have enduring value, awareness of past injustice must inspire determination to correct current injustice." Admission is \$10 per person. Register online at [www.ualberta.ca/alumni/](http://www.ualberta.ca/alumni/) weekend. 2:30–4 p.m. at Myer Horowitz Theatre, Students' Union Building.

## Sept. 26

**Homecoming Concert.** University Symphony and Symphonic Wind Ensemble concert. 2 p.m. Arts and Convocation Hall. [www.ualberta.ca/alumni/reunion](http://www.ualberta.ca/alumni/reunion).

## Sept. 27

**The Rhetoric of Silence: The So-Called Silent Indian.** Prominent in both cultural anthropological and sociolinguistic scholarship is the "silent Indian," the native person who remains strong, silent and stoic in the face of dominant culture. Noon–1 p.m. 2-06 Pembina Hall.

## Sept. 28

**Entrepreneurship, Innovation and Societal Wealth Creation in the Family Business Context.** Lloyd Steier, U of A distinguished chair in entrepreneurship and family enterprise, will discuss the importance of family business and what is being done to keep it viable. The U of A Calgary Centre. 4:30–6:30 p.m.

## Sept. 29

**The Changing Dynamics of North American Federalism and the Canada-U.S. Economic Relationship.** Earl Fry, professor at Brigham Young University, will be on hand to lead this talk. Noon–1 p.m. 2115 Education Centre.

**History of the Political Centre: The Case of The Economist.** Andrew Pendakis, professor at the University of Bonn, will give this talk on what exactly constitutes the political centre. 3:30–5 p.m. HC L-3 Humanities Centre.

## Sept. 30

**SSHRC New Funding Opportunities for Research Partnerships Information Session.** Gail Zboch, senior program officer, strategic programs and joint initiatives-SSHRC, will be on hand to provide more information about these funding opportunities. 9 a.m.–noon. Council Chambers University Hall.

**CN Trade Relations Forum.** John Weekes, former WTO ambassador and Canadian chief negotiator for NAFTA, will present. 11 a.m.–12:30 p.m. Stollery, fifth floor, Alberta School of Business.

**Research Forum, Video Games and Virtual Worlds: Innovative Technologies in Education.** 3:30–4:30 p.m. 122 Education South Education Centre.

**School of Human Development Inaugural Interdisciplinary Event.** Mike Walter, professor in the Department of Medical Genetics, will lead debate on whether genetic testing should be used for diagnosis. 5–6 p.m. Katz Building, Room 1080.

## Sept. 30, Oct. 1 & 7

**Campus Sustainability Tour.** Take a tour of North Campus to find out where and how the university is creating a sustainable campus. From students to faculty and staff to the wider community, everyone's welcome to join the free 1.5 hour walking tour. Spaces are limited. Please RSVP to secure your spot. It runs rain or shine. 3–4:30 p.m. 4-03 General Services Building.

## Oct. 1 & 2

**Transcending Fraticide: Political Mythologies, Reconciliations, and the Uncertain Future in the Former Yugoslavia.** The Faculty of Arts, in co-operation with the Wirth Institute for Austrian and Central European Studies, is putting on this two-day workshop. For more information go to [www.uofaweb.ualberta.ca/historyandclassics/TranscendingFraticide.cfm](http://www.uofaweb.ualberta.ca/historyandclassics/TranscendingFraticide.cfm).

## Oct. 1

**Wondrous Brutal Fictions: Buddhist Sermon-Ballads and Miracle Plays of Seventeenth-Century Japan.** Keller Kimbrough, professor at the University of Colorado, will speak about the history of the sekkyō and kō-jōruri puppet theatres, seeking to illuminate the world of Edo-period stage performance while exploring the representational conventions of miracles, interrogations and superhuman feats of resistance in the printed media of 17th-century Japan. 3–4 p.m. Basement 95 Tory Lecture Theatres.

**Save the Date – Gathering of the U of A Aboriginal Employees.** Any employee who self-identifies as an Aboriginal person is invited to attend a gathering of Aboriginal employees of the U of A for the purpose of building a sense of community. Noon, 122 Education South. [vnapeleon@law.ualberta.ca](mailto:vnapeleon@law.ualberta.ca).

## Oct. 2

**51st Annual Campus Recreation Turkey Trot.** Join the fun. 4k fun run/walk and 8k run. Open to everyone in support of United Way. 10:30 a.m. Butterdome.

## Oct. 2

**Affair of the Heart.** This fundraising dinner, silent auction and fashion show raises money for the Kids with Cancer Society. Paul Grundy, chairperson for the society will speak. Tickets are \$55 for students and \$80 for faculty. Contact [affairoftheheart2010@gmail.com](mailto:affairoftheheart2010@gmail.com) for tickets.

## Oct. 5

**The National Institutes of Health: Finding Funding & Preparing a Successful Application.** 2–3:30 p.m. 2F1.04, Classroom D, U of A Hospital.

**Walter Bond – Motivational speech.** U of A facilities and operations will be hosting this year's Western Canadian Universities Physical Plant Association conference from Oct 4 to 6, which will feature a motivational speech by former NBA player Walter Bond. The speaking engagement is open to all of campus. 1:30–3 p.m. in the Myer Horowitz Theatre.

## Oct. 6

**President's Town Hall Meeting.** Please join President Indira Samarasekera for a town hall discussion and Q-and-A session. 8:30–9:30 a.m. TL B1, Tory Lecture Theatre Complex (Tory Turtle). Please register online [www.president.ualberta.ca/eventsvp.cfm](http://www.president.ualberta.ca/eventsvp.cfm). Enter event code 1089.

## Oct. 6

**Regulation of child labour in Alberta.** Many children and adolescents work in prohibited occupations and/or face violations of minimum statutory requirements for hours of work, wages and deductions. 3:30–5 p.m. Education North, room 7-152.

**Distinguished Speaker Lecture Series.** James Mitchell, Virginia Tech distinguished professor emeritus in civil engineering, will deliver a lecture titled "Ground Improvement for Mitigation of Seismic Risk to Existing Embankment Dams." 4–6 p.m. Solarium, ETLC.

## Oct. 7

**Food Safety and Security in an Era of Climate Change.** Monkombo Swaminathan, "Father of the Green Revolution in India," and U of A 2010 honorary degree recipient, is the invited speaker for the Bentley Lecture in Sustainable Agriculture/Lester Pearson Memorial Lecture. 3 p.m. Aberhart Centre.

## Oct. 8–10

**Race-Making and the State: Between Postracial Neoliberalism and Racialized Terrorism.** This conference is to explore race-making, anti-racism, decolonization and the state. Lister Centre. [www.criticalraceconference.arts.ualberta.ca](http://www.criticalraceconference.arts.ualberta.ca).



# A MUCH-NEEDED MAKEOVER



Michael Davies-Venn

The University of Alberta began a major renovation project involving the skylight replacement and re-roofing of HUB Mall & Residences in December 2009. With the bulk of the work done, the university is looking at the end of the year as a completion date, a full six months ahead of schedule. The project was a planned replacement as part of the university's ongoing deferred maintenance program, which provided the opportunity for the roof replacement.

the  
*BackPage*